

## WHAT IS CLAIMED IS:

1. A transmitting system in a scanner chassis comprising a bushing rod and a bushing, wherein the bushing comprises:

5 a first spring strip set deposited in one end of the bushing, wherein the first spring strip set comprises a plurality of spring strips which function to clip onto the bushing rod; and

a second spring strip set deposited in the other end of the bushing, wherein the second spring strip set comprises a plurality of spring strips which function to clip onto the bushing rod,

10 wherein during an assembling process of the transmitting system, the spring strips of the first and the second spring strip sets can be hold open to allow the bushing rod to pass through, and then the bushing clips to the bushing rod by the potential for the spring strips to return to their original position.

15 2. The transmitting system according to claim 1, wherein the bushing is an integrated single device.

20 3. The transmitting system according to claim 1, wherein there are gaps disposed between the spring strips permitting the spring strips to be hold open and allows the busing rod to pass through during the assembling process.

4. The transmitting system according to claim 1, wherein there is a flange disposed on the inner surface of the spring strips, strengthening the attachment of the bushing and the bushing rod.

5 5. The transmitting system according to claim 4, wherein the flange is ring-shaped.

6. The transmitting system according to claim 1, wherein the bushing rod and the bushing are attached by interference fit.

7. The transmitting system according to claim 1, wherein the bushing rod and the bushing are attached by close fit.

10 8. The transmitting system according to claim 1, wherein the bushing is made of an elastic material.

9. The transmitting system according to claim 8, wherein the elastic material is plastic.

15 10. The transmitting system according to claim 1, wherein the bushing rod is made of metal.

11. A scanner, comprising:

a transmitting system comprising a bushing rod and a bushing, wherein the bushing comprises a first spring strip set and a second spring strip set,

wherein the first spring strip set is deposited in one end of the bushing comprising a plurality of spring strips; the spring strips function to clip onto the bushing rod; and the second spring strip set is deposited in the other end of the bushing comprising a plurality of spring strips; the spring strips function to clip onto the bushing rod,

wherein during an assembling process of the transmitting system, the spring strips of the first and the second spring strip sets can be hold open to allow the bushing rod to pass through, and then the bushing clips to the bushing rod by the potential for the spring strips to return to their original position.

12. The transmitting system according to claim 11, wherein the bushing is an integrated single device.

13. The transmitting system according to claim 11, wherein there are gaps disposed between the spring strips permitting the spring strips to be hold open and allows the busing rod to pass through during the assembling process.

14. The transmitting system according to claim 11, wherein there is a flange disposed on the inner surface of the spring strips, strengthening the attachment of the bushing and the bushing rod.

15. The transmitting system according to claim 14, wherein the flange is ring-shaped.

16. The transmitting system according to claim 11, wherein the bushing rod and the bushing are attached by interference fit.

17. The transmitting system according to claim 11, wherein the bushing rod and the bushing are attached by close fit.

5        18. The transmitting system according to claim 11, wherein the bushing is made of an elastic material.

19. The transmitting system according to claim 18, wherein the elastic material is plastic.

10       20. The transmitting system according to claim 11, wherein the bushing rod is made of metal.

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